GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASTM A473 Type 403

## Standard Specification for Stainless Steel Forgings

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - ASTM A473 Type 403 Stainless Steel Forgings**

**Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries**

**Grade Belongs to the Industry - Forging**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.150 max. |
| Manganese | Mn % | 1.000 max. |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.030 max. |
| Silicon | Si % | 0.500 max. |
| Chromium | Cr % | 11.500 - 13.000 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw or Normalizing or Quenching & Tempering |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 485 min. |
| Yield Strength in Mpa | 275 min. |
| Elongation in % | 20 min. |
| Reduction of Area in % | 45 min. |
| Hardness in HRC | 223 max. |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| S40300 | UNS | USA | Steel |
| SAE AMS-QQ-S-763 403 | AISI | USA | Steel |
| SAE J 405 403 | AISI | USA | Steel |
| AMS-QQ-S-763 403 | SAE | USA | Steel, Bars, Wire, Shapes and Forging |
| D 3698 STS 403 | KS | Korea | Plate, Sheet and Strip |
| G 4312 SUS 403 | JIS | Japan | Plate and Sheet |
| G 4319 SUS 403 FB | JIS | Japan | Forging |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.